



APPARATUS FOR FEEDING A GASEOUS AND/OR LIQUID MEDIUM TO A ROTATING
PRESSURIZED SYSTEM

CROSS REFERENCE TO RELATED APPLICATIONS

5 This application is the US national phase of PCT
application PCT/DE2003/004011, filed 4 December 2003, published 17
June 2004 as WO 2004/051130, and claiming the priority of German
patent application 10256537.6 itself filed 4 December 2002, whose
entire disclosures are herewith incorporated by reference.

FIELD OF THE INVENTION

10 The invention relates to an apparatus or device for
feeding a gaseous and/or liquid medium to a rotating pressurized
system, provided with a stationary seal-head housing with a
connection port for the medium to which a connection passage
extending into the seal-head housing is connected, as well as with
15 a tubular rotor connected with the pressurized system and also
extending into the sealhead housing, and furthermore with a stator
seal at an end of the connection passage and a rotor seal on an end
of the rotor, the stator seal and the rotor seal being coaxial to
the rotor and engaging each other.

20 An apparatus of this type serves for example as a seal
head or rotary feed coupling to transmit a fluid from stationary to
rotary machine elements and/or vice versa. As a result of
technical advances the requirements for rotary feedthroughs are
increasing regularly. In particular shop machines with spindle
25 rotation speeds have increased in the last decade from about 4000
to 6000 RPM to 20,000 to 50,000 RPM. In addition the pressures of